

<p align="center">Notice of Allowability</p>	Application No. 10/052,715	Applicant(s) OLZAK ET AL.	
	Examiner John B. Vigushin	Art Unit 2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to After Final Amendment filed 27 Sep 2004 (Cert. of Mailing date: 22 Sep 2004).
2. ☒ The allowed claim(s) is/are 1,3-32 and 34.
3. ☒ The drawings filed on 17 January 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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DETAILED ACTION

1. The present Office Action is responsive to Applicant's amended Response under 37 CFR § 1.116 filed September 27, 2004 (Certificate of Mailing date: September 22, 2004). The Examiner acknowledges the amendments to Claims 1, 6, 12 and 16, and the cancellation of Claim 33. Claims 1, 3-32 and 34 remain pending in the instant amended Application.

Allowable Subject Matter

2. Claims 1, 3-32 and 34 have been allowed.

3. The following is an examiner's statement of reasons for allowance:

As to Claims 1 and 3-5, patentability resides in *fewer of the surface mount solder pads on the first surface of the insulating body being provided for connection thereto of a replacement surface mount device than the plurality of electrical contacts formed on the second surface of the insulating body for connection to a corresponding contact area of a parent printed circuit board for a replaced device*, in combination with the other limitations of base Claim 1.

As to Claims 6-11, patentability resides in *the second quantity of input/output leads being greater than the first quantity of input/output leads and being arranged for electrical connection to a parent printed circuit board in a position corresponding to the replaced surface mount device*, in combination with the other limitations of base Claim 6.

As to Claims **12-15**, patentability resides in the combination of **1) the input and output connections of the replacement surface mount device being fewer than the input and output connections of the second surface mount device to be replaced, and the first quantity of solder pads on the top layer of the printed circuit board being of a number corresponding to the fewer input and output connections of the first replacement surface mount device** **and** **2) the second quantity of solder pads on the bottom layer of the printed circuit board being of a number corresponding to the number of input and output connections of the second surface mount device to be replaced by the replacement surface mount device and further being arranged to simulate the input and output connections of the second surface mount device**, in further combination with the other limitations of base Claim 12.

As to Claims **16-19**, patentability resides in *the second quantity of interconnecting means being greater than the first quantity of interconnecting means*, in combination with the other limitations of base Claim 16.

As to Claims **20-26 and 34, 27-30 and 32**, the reasons for allowance have already been set forth in section 12, pp.13-14, of the Examiner's Final Office Action of June 15, 2004.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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5. Claims 1, 3-26, 34 and 27-32 of the instant allowed Application will be renumbered as Claims 1-32, respectively, for publication in the issued patent.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Vigushin whose telephone number is 571-272-1936. The examiner can normally be reached on 8:30AM-5:00PM Mo-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


John B. Vigushin
Primary Examiner
Art Unit 2841

jbv
October 08, 2004